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G&G ROCKY FLATS



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IG ROCKY FLATS, INC. IKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

April 6, 1993

93-RF-4237

James K. Hartman Asst. Manager Environmental Management DOE. RFO

INTERAGENCY AGREEMENT TABLE 6 MILESTONE EXTENSION FOR OPERABLE UNIT 4 DRAFT AND FINAL PHASE I RFI/RI REPORTS - RLB-158-93

EG&G Rocky Flats, Inc. is hereby transmitting the appropriate documentation for justification of an Interagency Agreement (IAG) Table 6 Milestone extension for Operable Unit 4 (OU-4) draft and final Phase I RFI/RI Reports. The documentation consists of a letter from the U. S. Department of Energy (DOE) to the Colorado Department of Health (CDH) and the U. S. Environmental Protection Agency (EPA) and seven attachments which provide sufficient back-up justification.

The IAG milestones for the OU-4 draft and final Phase I RFI/RI Reports are May 21, 1993 and October 18, 1993, respectively. The requested "target" extension submission dates for the draft and final reports are March 17, 1994 and August 17, 1994, respectively. EG&G Rocky Flats has incorporated one month of contingency time into the OU-4 Phase I RFI/RI Schedule, which reflects a "commitment" extension submission date for the draft and final reports of April 17, 1994 and September 17, 1994. The contingency time has been incorporated into the OU-4 schedule due to uncertainties associated with laboratory analytical durations, data validation and regulatory agency document review periods.

CLASSIFICATION:

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UNCLASSIFIED	IX	$\overline{\mathbf{x}}$
CONFIDENTIAL		
SECRET		

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IN REPLY TO RFP CC NO:

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OPEN OCLOSED

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LTR APPROVALS:

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James K. Hartman April 6, 1993 93-RF-4237 Page 2

I trust this information will be adequate to support a request for an IAG milestone extension. If you have any questions or concerns pertaining to this matter, please contact R. T. Ogg on 966-8608.

R. L. Benedetti

Associate General Manager

Environmental Restoration Management

EG&G Rocky Flats, Inc.

RTO:apt

Orig. and 1 cc - J. K. Hartman

Attachment:

As Stated

cc:

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NOTICE:

INCOMPLETE DOCUMENT

The following document is missing <u>4</u> pages. This document was distributed in an incomplete state, and the microform copy is representative of the paper copy. If replacement pages are distributed, they will be microfilmed and included in the Administrative Record file.

April 5, 1993

Environmental Protection Agency/Colorado Department of Health

Re: Request for IAG Extension of OU4 Draft and Final Phase I RFI/RI Reports

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Dear	٠
	 •

The U.S. Department of Energy (DOE) has experienced significant delays to the Operable Unit No. 4 (OU4) Solar Evaporation Ponds (SEP) Phase I RFI/RI Program. This letter provides a basis for requesting milestone extensions for the submittal of the OU4 Draft and Final Phase I RFI/RI reports. Reasons for these delays include the following:

- Unanticipated requirements associated with the logistics of field mobilization;
- Discrepancies between the Interagency Agreement (IAG) schedule assumptions for OU4 and the actual durations incurred; and
- Delays caused by the conditional approval of the OU4 Final Phase I RFI/RI Work Plan.

Such delays have combined to a total duration of 18 months. However, diligent efforts have allowed the recovery of several months, resulting in a maximum schedule delay of 11 months, reflected in the commitment schedule, and a targeted schedule delay of 10 months, reflected in the target schedule. The target schedule represents the DOE's best estimate for submitting the Phase I RFI/RI Draft and Final Reports. The commitment schedule reflects contingencies for potential delays occurring beyond the control of the DOE. The DOE believes that all future OU4 milestones can potentially be met on schedule, provided U.S. Environmental Protection Agency (EPA) and Colorado Department of Health (CDH) support the OU4 IAG compliance strategy which is attached to this letter.

In accordance with the Rocky Flats Plant (RFP) IAG, signed by the DOE, EPA and CDH on January 22, 1991, the DOE is hereby requesting an IAG Table 6 milestone extension for OU4 SEP for the Draft Phase I RFI/RI Report and the Final Phase I RFI/RI Report. The IAG milestone extension is requested per "Chapter I, Part 42 Extensions, Paragraphs 221-227," of the IAG. The current IAG milestones for the OU4 Draft Phase I RFI/RI Report and Final Phase I RFI/RI Report are May 21, 1993 and October 18, 1993, respectively. The proposed submission dates for the two referenced documents are as follows:

TARGET SCHEDULE COMMITMENT SCHEDULE

Draft Phase I RFI/RI Report March 17, 1994 April 17, 1994

Final Phase I RFI/RI Report August 17, 1994 September 17, 1994

EPA/CDH April 5, 1993 Page 2

The total cumulative delay incurred during the OU4 Phase I RFI/RI Program is as follows:

Reasons	Schedule Delay
Unanticipated Mobilization Requirements	3 Months
Outdated IAG Assumptions	11 Months
OU4 Phase I RFI/RI Work Plan Approval Delay	4 Months
Total Cumulative Delay	18 Months

The DOE has taken every effort to mitigate the delay by assigning additional resources and conducting many tasks in parallel. However, logistics within the RFP and PA prevent the utilization of unlimited resources. Nevertheless, a total reduction of eight months delay is targeted, resulting in a net delay of 10 months.

The following seven attachments accompany this letter for your reference:

- Attachment A Milestone Extension Rationale;
- Attachment B OU4 Solar Ponds Phase I RFI/RI Target Schedule;
- Attachment C OU4 Solar Ponds Phase I RFI/RI Commitment Schedule;
- Attachment D OU4 Phase I RFI/RI Project;
- Attachment E OU4 Timeline of Events:
- Attachment F OU4 Solar Ponds Strategy for IAG Compliance; and
- Attachment G OU4 Critical Schedule Assumptions.

The DOE requests a meeting with EPA and CDH to discuss these issues in detail at the earliest convenient time. Please feel free to contact me if you have any questions or comments pertaining to this matter.

Sincerely,

DOE-RFO

EPA/CDH.WP2(WP51)

ATTACHMENT A - MILESTONE EXTENSION RATIONALE

The DOE's justification and rationale for requesting these IAG milestone extensions consist of the following reasons.

MOBILIZATION DELAYS

Unanticipated tasks were required for mobilization of the OU4 Phase I RFI/RI Field Program. Although DOE and EG&G Rocky Flats, Inc. (EG&G) expected numerous and complicated logistics for mobilization, it was not anticipated to require four months (August 3, 1992 - December 14, 1992). The RFP IAG allows one month for all RFI/RI mobilization tasks. The following list details requirements for mobilization of the OU4 Phase I RFI/RI Program.

1) Training:

- General Employee Training;
- Radiation Worker Training;
- Radiation Protection Training;
- Respirator Fit Test and Training;
- Building Indoctrination;
- Radio Communication Training;
- Standard Operating Procedure Training;
- Core Logging Training;
- Decontamination Pad Training;
- Drum Training; and
- Data Management Training.

2) General Permits:

- Integrated Work Control Package Waiver,
- Land Use Request;
- Buffer Zone Passes;
- Badges and Dosimeters; and
- Soil Disturbance Permit.

3) Equipment Procurement:

- Field Trucks:
- Drilling Rigs;
- Personal Protective Equipment;
- Decontamination Supplies;
- Radiation Detectors:
- Core Logging Supplies;
- Soil Sampling Equipment; and
- Vadose Zone Monitoring Equipment.

4) Documentation Requirements:

- Implementation Plan;
- Health and Safety Plan; and
- Vadose Zone Technical Memorandum.

5) Health and Safety:

- Equipment Calibration;
- Radiation Survey of Equipment;
- Property Transfer Forms; and
- Radiation Work Permits.

ATTACHMENT A (continued)

The target and commitment schedules include the mobilization tasks, durations of the tasks, and start and finish dates. Additional complications and impacts which are not referenced in the attached schedules include:

- Numerous coordination meetings with various support organizations for OU4;
- In October 1992, the SEP IHSS 101 was designated a Radiological Controlled Area (RCA). The designation of the Ponds as an RCA has created additional health and safety requirements and logistics;
- Support equipment, including a field trailer, equipment storage facilities, and radiation instrumentation was extremely difficult to obtain due to the number of remedial investigations being conducted simultaneously at RFP; and
- The security requirements associated with accessing the RFP Protected Area (PA) are extremely time consuming.

The total delays incurred for the OU4 mobilization tasks amount to three months.

IAG ASSUMPTIONS

Critical IAG assumptions relative to activity durations were used for planning and implementing the OU4 Phase I RFI/RI field program which are no longer accurate or valid. Specific examples of durations exceeding the IAG durations for critical path activities include:

Critical Path Activities	IAG <u>Duration</u>	Schedule <u>Duration</u>	Incremental <u>Delay</u>	Cumulative Incremental <u>Delay</u>
Procurement (OU4 Work Plan Implementation)	0 days	126 daysa	126 days	126 days
Vadose Zone Instrumentation (16 boreholes at two days per borehole)	0 days	32 daysa	32 days	158 days
Radiological Analysis	63 days	75 days ^b	12 days	170 days
Data Validation	21 days	45 daysb	24 days	194 days
Baseline Risk Assessment (Toxicity Tech Memo on Critical Path)	0 days	35 days ^b	35 days	229 days (total)

a = actual
b = target schedule

In general, a number of critical path activities were either not included or were assumed in the IAG to require less time than what was actually necessary for the OU4 implementation. Consequently, these activities have contributed to the OU4 Phase I RFI/RI schedule delay by approximately 229 working days or 11 months.

ATTACHMENT A (continued)

WORK PLAN APPROVAL

The OU4 Draft Final Phase I Work Plan was submitted to CDH and EPA on November 26, 1991. Regulatory agency correspondence was received on December 20, 1992 indicating the work plan was not approved. The revised OU4 work plan was submitted to CDH and EPA on February 5, 1992. The statement of work (SOW) for implementation of the work plan was transmitted to procurement on February 14, 1992 as a competitive bid contract. Conditional approval for the OU4 Final Phase I RFI/RI Work Plan was received from CDH and EPA on May 8, 1992. Consequently, OU4 work plan approval process delayed the procurement of the OU4 implementation. The DOE and EG&G did not believe it would be cost effective for a subcontractor to propose on the implementation of the unapproved OU4 Work Plan. The total delay incurred from the OU4 Work Plan approval process was four months.

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REGULATORY (IAG) MILESTONES	106d	5/21/93	10/18/93	
Submit Draft Phase I RFI/RI Report to EPA/CDH	P0	5/21/93	5/21/93	
Submit Final Phase I RFVRI Report to EPA/CDH	PO	10/18/93	10/18/93	
POND ACCESS/CLEAN AND DRY		10/20/92	11/30/95	
Pond 207A		10/20/92	10/20/92	
	PO	9/30/93	9/30/93	
٦	po od	9/30/94	9/30/94	
pond 2078-South (not accessible during phase I)		11/30/95	11/30/95	
\sqcap		11/30/94	11/30/94	
CONSTRUCT PA DECON PAD	28.3w	8/10/92	2/23/93	
MODE DI ANIMO EUCHTATION	1701	00/0/0	10120101	
O T TAN IMPLEMENTATION	2040	70,000	10/2/194	
Contract Award	8	8/3/92	8/3/92	
Kick-Off Meeting - AE		8/13/92	8/13/92	
Kick-Off Meeting - EG&G		8/18/92	8/18/92	
PROJECT MANAGEMENT	581.88d	8/5/92	10/27/94	
Weekly Project Meetings	581.88d	8/5/92	10/27/94	
First Meeting	1.5h	8/5/92	8/5/92	
Last Meeting	8	10/27/94	10/27/94	489FF
Monthly Accrual Cost Tracking	P025	8/21/92	10/27/94	
Submit First Report	РО	8/21/92	8/21/92	_
Submit Last Report		10/27/94	10/27/94	489FF
Bi-weekly Progress Tracking & Reports	258d	26/8/6	10/27/94	
Start Progress Tracking	P0	9/8/92	9/8/92	
Stop Progress Tracking	L	10/27/94	10/27/94	489FF
Justification for Visit Forms	547d	8/18/92	9/21/94	
Submit First Months Form	1.8w	8/18/92	8/28/92	17
Submit Last Months Form		9/16/94	9/21/94	489FS-30d
PROJECT PLANNING	520d	8/3/92	7/30/94	15
Health & Safety Plan	51d	8/13/92	10/23/92	
Prepare Plan		8/13/92	9/4/92	16
EG&G Review	14d	9/4/92	9/24/92	33
Finalize Plan	114	9/24/92	10/9/92	34
Submit Final Plan	Po	10/9/92	10/9/92	35
EG&G Final Review	P01	10/9/92	10/23/92	36
Vadose Zone, Tech Memo No. 1 & SOPS	172d	8/24/92	4/20/93	
Prepare Tech Memo	37d	8/24/92	10/13/92	
Submit Draft Tech Memo to EG&G/DOE		10/13/92	10/13/92	39
EGRG/DOE Review	13d	10/14/92	10/30/92	40
Incorporate Comments		11/2/92	11/10/92	41
Transmittal Processing - DOE/RFO		11/11/92	11/12/92	42
DOE/EG&G Final Combined Review		11/13/92	11/16/92	43
Transmit to CDH/EPA		11/16/92	11/16/92	44
EPA/CDH Review	100	11/17/92	11/30/92	45
EPA/CDH Conditional Approval of TM		11/30/92	11/30/92	46
Resolve Comments & Finalize Tech Memo	110	12/1/92	12/15/92	47

	Duration	Sched St	_	Predecessors
	╄	12/15/92	-	48
Task Name	200	12/15/92	12/15/92	48
	DO 07	12/16/02	4/20/93	50
Transmit Final TM to CDH/EPA	MOL	4/26/93	6/10/93	
EPACDH Final Approval	200	4/26/93	1/26/93	
Modifications to Field Activities, Tech mellio 190. 2	DI.	107/93	2/18/93	53
EPACDH Meeting - Approval to Proceed W. 111	WC.C	2/18/93	2/18/93	54
Prepare Tech Memo	200	2/18/03	2/23/93	55
Submit Draft TM to EG&G/DOE	DC C	20120103	3/15/93	56
EG&G/DOE Review	7.9W	2/15/03	3/15/93	57
Incorporate Comments and Expand Mettro	00	2013110	3/29/93	58
Submit Revised Draft TM to EG&G/DUE	MZ.	3/10/33	4/6/93	_
EG&G/DOE Review	1.2W	3/30/33	4/8/93	-
Incorporate Comments	07	4/0/03	5/6/93	-
Transmittal Processing - EPA/CDH	4W	4/3/33	5/20/93	-
EDA/CDH Review	2w	20000	50/06/3	-
Posolve Comments & Finalize Tech Memo	В	5/20/93	6/10/03	-
S. thmit Final TM	3w	56/17/6	5/4/2/03	
COALCOH Final Approval	190.5d	8/13/92	00/04/04	16
Coursemental Evaluation, Tech Memo No. 3	82d	8/19/92	42/10/92	+
Dranara FF Working Document	PO	12/10/92	12/10/2	1
Submit Draft EEWD to EG&G	4w	12/11/92	10/0/0	-
ECRG Review	0.2w	1/8/93	CO/8/+	-
Incomparate Comments into EEWP	P8	1/8/93	4/2B/03	$\overline{}$
Submit Revised Draft EEWD to EG&G/DOE	3w	1/8/83	2/46/03	-
FG&GDOE Review	4.8w	1/14/93	2/16/93	_
Prepare Draft EE Tech Memo	00	201017	3/5/93	+
Submit Draft EE Tech Memo to EGACIDOE	7. W	2/5/93	3/12/93	3 75
EG&G/DOE Review	<u>*</u>	2/12/03	3/12/93	-
Incorporate Comments into 1M	7	2/12/03	3/15/93	3 77
Submit Revised EE Tech Memo to Edad Doc	2	2/15/03	4/12/93	3 78
Transmittal Processing - EPACUR	W4	CD/C1/V	4/12/93	-
EPA/CDH Review	90		4/19/93	3 80
EPA/CDH Conditional Approval for EE 1801 Menus	200			13 81
Resolve Comments & Finalize recit ment	200		4/21/93	13 82
Submit Final EE Tech Memo to Edward Charles	DZ PZ			93 83
7 Transmittal Processing - Er Account	1684			33 15
EPA/CDH Final Review and Approximate	1544		3/19/93	33
85 Training Taking	44			92
Gen	a de la constant de l			93
First Class	156d			93
88 Last Class	01			92
89 Radiation Worker Halling	0		(,)	93
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91 Califica Diolection Training	PE		76///6	76.
	33d			76.
	44			76/
	48	h 10/12/92	2 10/17/92	196
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	Duration	Sched St	Sched Fin	Predecessors
Building Indoctrination	P90 08	8/20/92	12/10/92	
First Indoctrination	0.5h	8/20/92	8/20/92	
Last Indoctrination	15:0	12/10/92	12/10/92	
Radio Communication Training	734	8/31/92	12/10/92	
First Training	PO	8/31/92	8/31/92	
Last Training	p0	12/10/92	12/10/92	
SOP Training	P68	8/3/92	12/4/92	
First Training	PO	8/3/92	8/3/92	
Last Training	P0	12/4/92	12/4/92	
Core Logging Training	75d	8/7/92	11/19/92	
Decontamination Pad Training	0.1w	11/5/92	11/5/92	116
Dณm Training	2h	12/9/92	12/9/92	
RFEDS Training	16.16d	11/16/92	12/8/92	
Site Base Map Preparation	13w	9/8/92	12/1/92	17
Mobilization	132d	8/3/92	2/2/93	
Plan of the day meetings	455d	11/2/92	7/30/94	
FIELDWORK	379d	11/10/92	4/22/94	37
Ground Water Level Measurements	14w	3/17/93	6/22/03	
Obtain borehole/utility clearances	610	12/10/92	3/5/03	
First Borehole Clearance		12/40/02	42/40/02	
l ast Borehole Clearance	20	20127	26/01/21	470 474 400 405 400
Pra-Work RAD Survay	DO 9	3/3/33	00/0/83	170, 174, 160, 165, 169
Start Survey	pla	78/01/71	3/3/93	7.7
Civiet Curron	DO	78/01/71	78/01/71	15855+1d
Oll Wide Badiological Survey	00	3/2/83	56/5/6	159FF
Start DAD Suprov	pont	11/12/92	4/1/93	
Finish Dad Curron	200	267711	28/21/11	
CHINSH Nau Sulvey	00	4/1/93	4/1/93	
Donale Suriace Sull Sampling	DRA	12/11/92	4/14/93	
Manuali Sulface Soll Sampling	3.6w	12/11/92	1/5/93	
Assured Deads (ch. et et et)	χ	4/1/93	4/14/93	163
Albunia Funds (xb,xv,xi,xp)	psg .	12/14/92	4/9/93	
DOLETIONE DUMINING AND SAMPHING/PIEZOMBHET INSTAILANON	WE.11	12/14/92	3/2/93	
Vodes 755 Heller 1 - 1-11-11	15.2w	12/25/92	4/9/93	170SS+2w
Vadose Cure monitoring instantation	3.2w	2/9/93	3/2/93	176
merceptor Herical System (XD,XV,XI,XP)	32d	12/28/92	2/9/93	
DOMENDIE UTITUTY AND SAMPHINITY NEZONIERE INSTALLANO	5.4w	12/28/92	2/2/93	
Core Logging	4.4w	1/11/93	2/9/93	174SS+2w
Vadose Zone Monitoring installation	1.8w	1/21/93	2/2/93	174FF
Pond 20/A (xb,xv,xl,xp)	111d	11/10/92	4/13/93	
Radiological Survey	2d	11/10/92	11/16/92	
Geophysics	pg	12/4/92	12/10/92	AND THE RESIDENCE OF THE PARTY
Borehole Drilling and Sampling	4.6w	3/10/93	4/9/93	
Core Logging	3w	3/24/93	4/13/93	180SS+2w
Vadose Zone Monitoring Installation	1.6w	3/22/93	3/31/93	
Earthen Ponds "Original Ponds" (xb,xv,xi,xp)	63d	1/13/93	4/9/93	
Geophysics	2d	4/8/93	4/9/93	
Borehole Drilling & Sampling/Geophysics	11.4w	1/13/93	4/1/93	
		-		

Core Logging	1/27/93 3/19/93 3/3/93 3/11/93 1/8/93 4/26/93 1/22/93 4/22/93 4/26/93 4/22/93 1/11/8/92 7/29/93 1/29/93 7/29/93 3/22/93 6/17/93 3/22/93 6/17/93 4/26/93 6/17/93 5/7/93 6/17/93 5/7/93 6/17/93 1/29/93 1/22/94 5/28/93 7/8/93 1/21/4/92 1/2/94 5/28/93 1/22/94 1/21/4/92 1/22/94 1/21/4/92 1/22/94 1/21/4/92 1/22/94 1/21/4/92 1/22/94 1/21/4/92 1/22/94 1/21/4/92 1/22/94 1/21/4/92 1/22/94 1/21/4/92 1/22/94 1/21/4/92 1/22/94
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9 6w 4w 4w 176.5d 176.5d 116.5d 116.5d 0d 7Turnaround 111.5d	70070
4w 2754 176.5d 176.5d 116.5d 16.5d 1	20020
2754 alysis/Turnaround 116.5d 06 110.5d 06	20020
2754 alysis/Turnaround 176.5d 116.5d 0d 110.5d 1113.5d 1113.5d	
176.5d alysis/Turnaround 116.5d 0d 0d 111.5d 1131.5d	
Data Lab Analysis/Turnaround Sample Sample Lab Analysis/Turnaround 116.5d 1 0d 1 131.5d 1	
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led Non Rad Data	
ed Rad Data	
Data 101	
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Rad Data 101.5d	
PO	
PO.	8/17/93 8/17/93
Receive Validated Non Rad Data 56.5d 56	5/7/93 7/27/93
Receive First 0d	5/7/93 5/7/93
Receive Last 0d	7/27/93 7/27/93
Rad Data 56.5d 56.5d	5/28/93 8/17/93
Receive Last 0d	8/17/93 8/17/93
P/41	
nalysis/Turnaround 87d	12/28/92 4/27/93

234 235 236	Task Name	Duration	Sched St	Sched Fin	Predecessors
8 5	First Sample	PO	12/28/92	12/28/92	174SS
٥	Last Sample	Po	4/27/93	4/27/93	174FS+60d
	Rad Data Lab Analysis/Turnaround	102d	12/28/92	5/18/93	
237	First Sample	PO	12/28/92	12/28/92	17455
238	Last Sample	PO	5/18/93	5/18/93	174FS+75d
239	Receive Unvalidated Non Rad Data	27d	3/19/93	4/27/93	
240	Receive First	PO	3/19/93	3/19/93	234FS+60d
241	Receive Last	P0	4/27/93	4/27/93	235
242	Receive Unvalidated Rad Data	27d	4/9/93	5/18/93	
243	Receive First	PO	4/9/93	4/9/93	237FS+75d
244	Receive Last	PO	5/18/93	5/18/93	238
245	Validate Non Rad Data	724	3/19/93	6/29/93	
246	Badio	50	3/10/03	3/10/01	240
247	End	200	6/29/93	6/20/93	24155+454
248	Validate Rad Data	PCZ	4/9/93	7/20/93	
249	Regin	100	20/0/4	20/0/1	949
250	F110	36	00/00/1	CERT	643
25.4	Decoile Volidated New Bod Date	300	1120193	1120/93	Z44F3+430
	Neceive Validated Ivoli Rad Data	D/7	56/17/G		
707	Kacelye FIRS	PO	5/21/93		246FS+45d
253	Receive Last	PO	6/29/93	6/56/63	247
	Receive Validated Rad Data	27d	6/11/93	7/20/93	
255	Receive First	P0	6/11/93	6/11/93	249FS+45d
256	Receive Last	PO	7/20/93	7/20/93	250
	Pond 207A	1430	3/10/93	9/24/93	
258	Non Rad Data Lab Analysis/Turnaround	840	3/10/93	7/5/93	
259	First Sample	200	3/10/03	3/10/03	1800s
260	Last Samula	7	7/5/03	2/5/03	400.00
261	Rad Data Lab Analysis/Turnaround	P80	2/40/03	2/22/03	tour Strong
262	First Sample	200	2/40/03	9/40/03	19005
263	last Sample	8	20/20/12	201000	10000
	Receive Unvalidated Non Rad Data	244	614103	201217	IONES* (DO
265	Receive First	D h 7	00.193	26,670	
200		00	6/1/93	6/1/93	259FS+60d
	ואפרפועם וישטו	9 0	//5/93	7/5/93	260
/97	Keceive Unvalidated Kad Data	23d	6/22/93	7/23/93	
997	Keceive First	PO	6/22/93	6/22/93	262FS+75d
	Kecewe Last	PO	7/23/93	7/23/93	263
270	Validate Non Rad Data	P69	6/1/93	6/9/6	
	Begin	P0	6/1/93	-	265
272	End	PO	9/6/93	-	266FS+45d
273	Validate Rad Data	P89	6/22/93	9/24/93	
274	Begin	P0	6/22/93	-	268
275	End	00	9/24/93	-	260FS+45/I
276	Receive Validated Non Rad Data	7970	8/3/03	0/6/03	POL -0 1007
277	Receive First		8/3/03	-	974EC±45d
278	Receive Last	100	0/6/03	+	27.0
279	Receive Validated Rad Data	P5C	8174/03	-	
280	Receive First		8/24/03		27456.464
	Receive Last	800	0/2/03	0/24/03	214F 3745U

282		Duration	Sched St	Sched Fin	Predecessors
~	n Ponds	P221	1/13/93	9/16/93	
,	Non Rad Data Lab Analysis/Turnaround	117d	1/13/93	6/24/93	
284	First Sample	P0	1/13/93	1/13/93	_
285	Last Sample	P0	6/24/93	6/24/93	185FS+60d
286	Rad Data Lab Analysis/Turnaround	132d	1/13/93	7/15/93	
287	First Sample	P0	1/13/93	1/13/93	185SS
288	Last Sample	[P0	7/15/93	7/15/93	185FS+75d
289	Receive Unvalidated Non Rad Data	P/2	4/6/93	6/24/93	
290	Receive First	Po	4/6/93	4/6/93	284FS+60d
291	Receive Last	P0	6/24/93	6/24/93	285
	Receive Unvalidated Rad Data	57d	4/27/93	7/15/93	
293	Receive First	PO	4/27/93	4/27/93	287FS+75d
294	Receive Last	PO	7/15/93	7/15/93	288
295	Validate Non Rad Data	102d	4/6/93	8/26/93	
296	Begin	90	4/6/93	4/6/93	290
T	Fnd	PO	8/26/93	8/26/93	291FS+45d
298	Validate Rad Data	1024	4/27/93	9/16/93	
200	Rodin	PO	4/27/03	4/27/93	203
200		200	0/46/03	0/46/03	20456 - 464
+			8/10/83	8/10/83	294F3+430
ş	Receive Validated Non Kad Data	p/c	6/8/93	8/52/93	
302	Receive First	90	6/8/93	6/8/93	296FS+45d
303	Receive Last	P0	8/26/93	8/26/93	297
ತ್ಥ	Receive Validated Rad Data	P/29	6/20/03	9/16/93	
305	Receive First	PO	6/56/93	6/29/93	299FS+45d
306	Receive Last	B	9/16/93	9/16/93	300
307	Radiologically Controlled Area (RCA)	197d	1/8/93	10/11/93	
308	Non Rad Data Lab Analysis/Turnaround	137d	1/8/93	7/19/93	
309	First Sample	P0	1/8/93	1/8/93	189SS
310	Last Samole	po	7/19/93	7/19/93	189FS+60d
311	Rad Data Lab Analysis/Turnaround	152d	1/8/93	8/0/03	
312	First Sample	PU	1/8/03	1/8/03	18055
313	l act Samula	PO	0,0/03	20/0/4	18050-754
2 2	Descript Uncellated New Dad Date	77.6	0/3/32	0/9/93	109F 347 3U
346	Desire Circ	P. C.	200777	28/81/7	F VO : 04,000
310	Nacaiva Filst	DO C	4/1/93	201011	309F3+50G
+	Leceive Lasi	B	58/61/	119/93	310
210	Receive Univalidated Rad Data	D//	4/22/93		
210	Keceive First	DO .	4/22/93	4/22/93	312FS+75d
SIS.	Kecelve Lasi	8	86/6/8		313
320	Validate Non Kad Data	122d	4/1/93	9/20/93	
\dashv	Begin	P0	4/1/93	4/1/93	315
322	End	P0	9/20/93	9/20/93	316FS+45d
323	Validate Rad Data	122d	4/22/93	10/11/93	THE REPORT OF THE PARTY OF THE
324	Begin	PO	4/22/93	4/22/93	318
325	End	PO	10/11/93	10/11/93	319FS+45d
326	Receive Validated Non Rad Data	P / L	6/3/93	9/20/93	
_	Receive First	P0	6/3/93	6/3/93	321FS+45d
328	Receive Last	P0	9/20/93	9/20/93	322
329	Receive Validated Rad Data	P27	6/24/93	10/11/93	

_		Duration	Sched St	Sched Fin	Predecessors
	Task Name	PO	6/24/93	6/24/93	324FS+45d
330	Kecene First	PO	10/11/93	10/11/93	325
331	Receive Last	188 5.1	4/13/93	12/31/93	
332	Environmental Evaluation	128 54	4/13/93	10/8/93	
333	Non Rad Data Lab Analysis/Tumaround	200	4/13/03	113/03	45655
334	First Sample	33	10/8/03	10/8/93	456FS+60d
335	Last Sample	143 54	4/13/93	10/29/93	
336	Rad Data Lab Analysis/Turnaround	PO CEL	4/13/03	4/13/93	45655
337	First Sample	PO -	40/00/03	40/20/03	456FQ+75d
338	Last Sample	PA 00	C6/67/01	40/8/03	
339	Receive Unvalidated Non Rad Data	00.00	2001	20037	234EC+60d
340	Receive First	DA S	26/0/07	40,0,0	225
341	Receive Last	DO S	20000	10/0/33	200
342	Receive Unvalidated Rad Data	DC:00	601711	CEIEZIOI	997564
343	Receive First	na	66/17/1	CRUZU	33/134/30
776	Receive Last	PO	10/29/93	10/29/93	RSS
346	Validate Non Rad Data	113.5d	2/9/2	12/10/93	_
2	Design	8	2/6/93	2/6/93	
١.		P0	12/10/93	12/10/93	341FS+45d
347		113.5d	7/27/93	12/31/93	
348	Validate Rad Data	P0	7/27/93	7/27/93	343
349	Begin	70	12/31/93	12/31/93	344FS+45d
350	End	68 SA	0/7/03	12/10/93	
351	Receive Validated Non Rad Data	200	0/7/03	0/7/03	246FS+45d
352	Receive First	3	42/40/02	42/40/03	_
353	Receive Last	DO	60/06/0	12/24/03	
354	Receive Validated Rad Data	00.00	8/20/00	00/00/0	24056+464
	Receive First	20	8/20/93	9/20/93	036
356	Receive Last	20	12/3 1/83	121 013	000
Т			00.71	100	
	BASELINE RISK ASSESSMENT	D\$25	1/1/92	1/4/94	
T	Data Collection & Evaluation	347.38d			
360	Collect Historic Data	27.2w		"	_
364	Evaluate Historic Data	35d	3/15/93		360
363	Evaluate Non-Rad Data	2054		-	
263	Around Ponds	106.5d			_
,	Contraction	Ρ0	3/5/93		-
	Chich	P0	8/3/93	8/3/93	228FS+1w
200		P22	3/19/93	26/9/2	
۵,	7-10	P0	3/19/93	3/19/93	240
200	Nigio.	p0	2/6/93	2/6/93	253FS+1w
200	TUBIL	740	6/1/93	9/13/93	
303	Pong 201A	2	6/1/03	6/1/03	265SS
370	Start		0/13/03		_
371	Finish	7207		20/2/0	<u> </u>
372	Earthen Ponds	DIO		COLOR	50000
373	Start	DO .	4/0/93		
374	Finish	00			<u>-</u>
375	Radiologically Controlled Area (RCA)	127d			
376	Slart	00	4/1/93	4/1/93	
377	Finish	PO	9/27/93	9/27/93	328FS+1w

378 379	Task Name	Duration	Sched St	Sched Fin	Predecessors
	Environmental Evaluation	118.5d	26/9/2	12/17/93	
,	Start	PO	2/9/2	7/6/93	340SS
_	Finish	P0	12/17/93	12/17/93	353FS+1w
381	Evaluate Rad Data	202d	3/26/93	1/4/94	
382	Around Ponds	106.5d	3/26/93	8/24/93	
383	Start	DQ Od	3/26/93	3/26/93	218SS
384	Finish	PO Od	8/24/93	8/24/93	231FS+1w
385	ITS	D/1	4/9/93	7/27/93	
386	Start	P0	4/9/93	4/9/93	243SS
387	Finish	PO	7/27/93	7/27/93	256FS+1w
388	Pond 207A	73d	6/22/93	10/1/93	
389	Start	Po	6/22/93	6/22/93	268SS
390	Finsh	PO	10/1/93	10/1/93	281FS+1w
391	Earthen Ponds	107d	4/27/93	9/23/93	
392	Start	P0	4/27/93	4/27/93	293SS
393	Finish	PO	9/23/93	9/23/93	_
394	Radiologically Controlled Area (RCA)	127d	4/22/93	10/18/93	-
305	Start	100	4/22/03	4/22/93	21888
200		800	40/48/03	40/48/03	
200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	200101	26/01/01	
	Environmental Evaluation	DC.C11	112/193	1/4/94	
398	Start	3	7/27/93	1/2//93	343SS
399	Finish	PO	1/4/94	1/4/94	356FS+2d
400	Human Health Risk Assessment	2480	1/4/93	12/15/93	
401	Exposure Assessment - TM4	910	1/4/93	5/10/93	
402	Prepare Tech Memo	6.8w	1/4/93	2/18/93	361
403	Submit Draft Tech Memo to EG&G/DOE	P0	2/19/93	2/19/93	402
404	EG&G/DOE Review	10d	2/19/93	3/4/93	403
405	Incorporate Comments	DS	3/5/93	3/11/93	404
406	Submit Revised Draft Tech Memo	8	3/11/93	3/11/93	405
407	Transmittal Processing - EPA/CDH	2d	3/12/93	3/15/93	106
408	EPA/CDH Review	20d	3/16/93	4/12/93	407
409	Resolve Comments and Finalize TM	104	4/13/93	4/26/93	408
410	Submit Final Tach Mamo	200	4/26/03	4/26/03	400
744	EDA/CDH Final Approval	101	20/20/1	5/10/03	740
742	Concern Acceptant Models The	PAO	4/20/02	3/10/93	014
717	CALUSUIE ASSESSINGIII MUUEIS - I MO	D/A	172/93	0/14/93	The second secon
1	C. Lens Doe Tot Man L. C. C. Com	MO	56/67/1	3/23/83	077
414	Sublint Drait Lech Memo to EGAG/DOE	3	3/22/83	3/22/83	213
415	EGGG/DOE Keylew	100	3/26/93	4/8/93	414
416	Incorporate Comments	- PG	4/9/93	4/15/93	415
417	Submit Draft Tech Memo	Po	4/15/93	4/15/93	416
418	Transmittal Processing - EPA/CDH	2d	4/16/93	4/19/93	417
419	EPA/CDH Review	20d	4/20/93	5/17/93	418
420	Resolve Comments and Finalize Tech Memo	10d	5/18/93	5/31/93	119
421	Submit Final Tech Memo	P0	5/31/93	5/31/93	420
422	EPA/CDH Final Approval	P01	6/1/93	6/14/93	421
423	Contaminants of Concern - TM6	919	A/10/03	12/14/93	The same of the contract of th
424	Prepare Tech Memo	Pin Service Control of the Control o	R/10/93	0/2003	306FS_10W
425	Submit Draft Tech Memo to EG&G/DOE	0	9/20/93	9/20/93	424
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	27.2w	9/4/92	3/12/93	
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ATTACHMENT C

Task Name		Duration	Sched St	Sched Fin	\vdash
	ĺ	P0	12/15/92	12/15/92	
	Transmit Final TM to CDH/EPA	0d	12/15/92	12/15/92	48
	EPA/CDH Final Approval	18w	12/16/92	4/20/93	50
2	Modifications to Field Activities, Tech Memo No. 2	P86	1/26/93	6/10/93	
	EPA/CDH Meeting - Approval to Proceed w/ TM	1d	1/26/93	1/26/93	
	Prepare Tech Memo	3.3w	1/27/93	2/18/93	53
	Submit Draft TM to EG&G/DOE	P0	2/18/93	2/18/93	54
	EG&G/DOE Review	3d	2/18/93	2/23/93	55
	Incorporate Comments and Expand Memo	2.9w	2/23/93	3/15/93	56
	Submit Revised Draft TM to EG&G/DOE	P0	3/15/93	3/15/93	
	EG&G/DOE Review	Zw	3/16/93	3/29/93	58
	Incorporate Comments	1.2w	3/30/93	4/6/93	_
	Transmittal Processing - EPA/CDH	2d	4/7/93	4/8/93	09
	EPA/CDH Review	4w	4/9/93	5/6/93	61
	Resolve Comments & Finalize Tech Memo	28	5/1/93	5/20/93	62
	Submit Final TM	PO	5/20/93	5/20/93	_
	EPA/CDH Final Approval	3w	5/21/93	6/10/93	64
ш	Fovironmental Evaluation Tech Memo No. 3	190 5d	8/19/92	5/12/93	-
	Prepare FF Working Document	82d	8/19/92	12/10/92	16
	Submit Draft FEMD to FCRC	100	12/10/02	12/10/92	
		3	12/44/02	10/03	
	EGAG REVIEW	A . C	410103	4/0/03	
	Incorporate Comments with EEWF	O.CW	10/93	1/0/93	
	SUDMIT REVISED DIVIN EEWD TO EGGG/UUE	3 6	1/6/93	1/8/83	_
	EGAG/DOE REVIEW	Mr.	26/0/1	11000	
	Prepare Draft EE Tech Memo	4.8w	1/14/93	2/16/93	_
	Submit Draft EE Tech Memo to EG&G/DOE	8	2/16/93	2/16/93	_
	EG&G/DOE Review	2.7w	2/16/93	3/5/93	_
	Incorporate Comments into TM	4	3/5/93	3/12/93	_
	Submit Revised EE Tech Memo to EG&G/DOE	PO	3/12/93	3/12/93	196
	Transmittal Processing - EPA/CDH	무	3/12/93	3/15/93	
	EPA/CDH Review	4w	3/15/93	4/12/93	78
	EPA/CDH Conditional Approval for EE Tech Memo	po	4/12/93	4/12/93	7.9
	Resolve Comments & Finalize Tech Memo	WI.	4/12/93	4/19/93	80
	Submit Final EE Tech Memo to EG&G/DOE	P0	4/19/93	4/19/93	81
	Transmittal Processing - EPA/CDH	2d	4/19/93	4/21/93	82
	EPA/CDH Final Review and Approval	ЭW	4/21/93	5/12/93	83
<u> </u>	Training	168d	8/3/92	3/24/93	15
	General Employee Training	154d	8/18/92	3/19/93	A to the second that the second secon
	First Class	4 4	8/18/92	8/18/92	
	Last Class	-8a	3/19/93	3/19/93	
	Radiation Worker Training	156d	8/19/92	3/24/93	
	First Class	10	8/19/92	8/19/92	
	Last Class	19	3/24/93	3/24/93	
	Radiation Protection Training	Э с	9/3/92	9/7/92	
	September 3rd Class	39	9/3/92	9/1/92	
	Respirator Fit Test & Training	33d	8/27/92	10/12/92	
	First Fit	4	8/27/92	8/27/92	
	Last Fit	- Bh	10/12/92	10/12/92	

Some Poor Herical System (XD,XV,XL,XP)
toring Installation 1.8w 1/21/93 2/2/93 111/10 2/2/93 111/10 11/10/02 4/13/03
toring Installation 1.8w 1/21/93 2/2/93
5d 11/10/92 1
12/4/32 3d 12/4/32 4 6w 3/10/93
3w 3/24/93
Monitoring Installation 1 6w 3/27/93 3/24/93
(xp) 63d 1/13/93
2000
Geophysics 2d 4/8/93 4/9/03

	Duration	Sched St	Sched Fin	Predecessors
Fact	1824	1/13/93	9/23/93	
Non	102d	1/13/93	6/3/93	
284 First Sample	P0		1/13/93	185SS
	P0	1 6/3/93	6/3/93	
Kad	132d		7/15/93	
	P0		1/13/93	185SS
	P0		7/15/93	185FS+90d
Kece	4 2d	4/6/93	6/3/93	
	P0		4/6/93	284FS+60d
	P0		6/3/93	285
Rece	42d	5/18/93	7/15/93	
	p0		5/18/93	287FS+90d
	P0	7/15/93	7/15/93	288
Valic	92d	L	8/12/93	
296 Begin	P0	4/6/93	4/6/93	290
	P0	8	8/12/93	
Valic	929	5/18/93	9/23/93	
	P0	5/18/93	5/18/93	293
	PO		9/23/93	294FS+50d
Rece	42d		8/12/93	***************************************
302 Receive First	P0	6/12/93	6/15/93	296FS+50d
+	PO		8/12/93	297
Kece	42d		9/23/93	
	P0		7/27/93	299FS+50d
Sub Kecelve Last	P0	9/23/93	9/23/93	300
Kadiologically Controlled Area (RCA)		1/8/93	11/8/93	
Non Rad Data Lab Analysis/Turnaround	nd 137d	1/8/93	7/19/93	
	0d	1/8/93	1/8/93	189SS
Last Sample	P0	7/19/93	7/19/93	189FS+60d
Rad Data Lab Analysis/ Iumaround	167d	1/8/93	8/30/93	
rust Sample	PO	1/8/93	1/8/93	189SS
Cast Sample	PO	8/30/93	8/30/93	189FS+90d
Necelye Univalidated Non Kad Data	D/L/	4/1/93		
Nacelve FIRS	PO	4/1/93	-	309FS+60d
Roceive Hevelidated Dod Deta	00	7/19/93		310
Receive First	D//	5/13/93		
Receive Last		5/15/5		312FS+90d
Validate Non Rad Data	PA 777	0,30/33	0/20/93	313
Begin	PO	4/1/03		316
End	PO	PD/77/0	_	346504.604
Validate Rad Data	127d	5/13/93		DOC 10 101
Begin	PO	5/13/93		318
End	PO	11/8/93	11/8/93	319ES+50d
Receive Validated Non Rad Data	P//	6/10/93		
Receive First	PO	6/10/93	+-	321FS+50d
Receive Last	PO .	9/27/93	+	322
Receive Validated Rad Data	P22	7/22/93		

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ŀ	lask Name	Duration	Sched St	Sched Fin	-
186	Core Logging	7.6w		3/19/93	_
_	Vadose Zone Monitoring Installation	1.4w	3/3/93	3/11/93	
88	Radiologically Controlled Area (RCA) (xb,xv,xi,xp)	P//	1/8/93	4/26/93	
189	Borehole Drilling & Sampling	15.4w		4/26/93	
190	Core Logging	13.2w		4/23/93	189SS+2w
191	Vadose Zone Monitoring Installation	3d	2/22/93	2/24/93	-
192	Drum Sampling	1w	4/20/93	4/26/93	189FF
193	Seismic Reflection/Refraction	2w	4/26/93	5/7/93	
<u>₹</u>	Land Survey	1814	-	7/29/93	
2	Start Land Survey	PO		11/18/92	164SS+1w
96	Finish Land Survey	PO	7/29/93	7/29/93	-
-	Other Vadose	64d	3/22/93	6/17/93	
2 8	Guelph Permeameter Tests	4.8w	3/22/93	4/22/93	182SS
<u>8</u>	Soil Gas Survey	2w	4/23/93	5/6/93	_
200	Infiltrometer Installation	- PM	5/1/93	6/17/93	_
201	Vadose Monitoring Activities	260d	4/26/93	4/22/94	·-
202	Lysimeter Sampling	52w	4/26/93	4/22/94	182FS+3 4w
203	Infiltrometer Testing	Pw Gw	5/28/93	7/8/93	-
	Demobilization	4w	7/9/93	8/5/93	1
202					
506	LAB ANALYSIS/TURNAROUND	295d	12/14/92	1/28/94	
207	Around Ponds	196.5d	12/14/92	9/14/93	
208	Non Rad Data Lab Analysis/Turnaround	116.5d	12/14/92	5/25/93	
28		P0	12/14/92	12/14/92	170SS
59	Last Sample	PO	5/25/93	5/25/93	170FS+60d
	Rad Data Lab Analysis/Turnaround	146.5d	12/14/92	7/6/93	
212	First Sample	B	12/14/92	12/14/92	170SS
213	Last Sample	8	2/6/93	26/9/2	
214	Receive Unvalidated Non Rad Data	56.5d	3/5/93	5/25/93	
215	Receive First	PO	3/5/93	3/5/93	209FS+60d
216	Receive Last	B	5/25/93	5/25/93	210
217	Receive Unvalidated Rad Data	PS:95	4/16/93	7/6/93	
218	Receive First	В	4/16/93	4/16/93	212FS+90d
219	Receive Last	po	7/6/93	7/6/93	213
220	Validate Non Rad Data	106.5d	3/5/93	8/3/93	
221	Begin	P0	3/5/93	3/5/93	215
222	End	P0	8/3/93	8/3/93	216FS+50d
223	Validate Rad Data	106.5d	4/16/93	9/14/93	
224	Begin	PO	4/16/93	4/16/93	218
577	End	PO	9/14/93	9/14/93	219FS+50d
526	Receive Validated Non Rad Data	56.5d	5/14/93	8/3/93	
227	Receive First	PO	5/14/93	5/14/93	221FS+50d
228	Receive Last	P0	8/3/93	8/3/93	222
23	Receive Validated Rad Data	26.5d	6/25/93	9/14/93	
230	Receive First	PO	6/22/93	6/22/93	224FS+50d
231	Receive Last	PO	9/14/93	9/14/93	225
232	Interceptor Trench System	167d	12/28/92	8/17/93	
	Non Rad Data Lab Analysis/Turnaround	97d	12/28/92	4/27/93	
ĺ	A				

First Sample Last Sample Rad Data Lab Ang First Sample Last Sample Receive Unvalidat Receive Unvalidat Receive Last Receive Est Begin End Validate Rad Data Begin End Receive Validated Receive Validated Receive Validated	First Sample Last Sample Rad Data Lab Analysis/Turnaround First Sample		12/28/92	42/20/02	
Rad Data First Last Receive L Receive V Receive V	Sample Lab Analysis/Turnaround Sample			1/1/1/14	_
Rad Data First Last Receive L Rece Receive U Rece Receive U	Lab Analysis/Turnaround Sample	PO	4/27/03	26/07/21	
First Last Receive L Rece Receive U	Sample	1174	12/28/02	6/0/0/2	
Receive U		100	12/28/02	42/28/02	47466
Receive U	Salinde	20	6/8/03	76/07/71	
Receive Unidate National Receive Unidate National Receive Validate National Receive Validate Validate Receive Validate V	Receive Unvalidated Non Rad Data	27d	3/19/93	477793	-
Receive U Rece Rece Rece Validate N End Validate R End Receive V Rece Receive V	Receive First	PO	3/19/93	3/10/03	23459+604
Receive U Rece Receive U Receive U Receive V Receive V Receive V	Receive Last	РО	4/27/93	4/27/93	
Rece Validate N Begin End Validate R End Receive V Rece Rece	Receive Unvalidated Rad Data	27d	4/30/93	6/8/93	_
Nece Validate N Begin End Validate R Begin End Receive V Rece	Receive First	PO	4/30/93	4/30/93	237ES+90d
Validate N Begin End Validate R Begin Begin Begin Receive V Recei	Receive Last	PO	6/8/93	6/8/03	238
Begin End Validate R Begin Begin End Receive V Recei	Validate Non Rad Data	P//	3/19/93	26/9/2	700
Validate R Begin Eid Receive V Recei Recei		p ₀	3/19/93	3/19/93	240
Validate R Begin End Receive V Recei Recei		PO	7/6/93	7/6/93	_
Begin End Receive V Recei Recei	ad Data	P22	4/30/93	8/17/93	<u> </u>
Receive V Recei		В	4/30/93	4/30/93	243
Receive V Recei Recei		PO	8/17/93	8/17/93	244ES+50d
Recei Receive V	Receive Validated Non Rad Data	27d	5/28/93	7/6/93	
Receive V	Ve First	PO	5/28/93	5/28/93	246FS+50d
Receive V:	ve Last	Po	7/6/93	7/6/93	
	Receive Validated Rad Data	27d	7/9/93	8/17/93	
Rece	Kecelve First	PO	7/9/93	7/9/93	249FS+50d
Recei	Receive Last	PO	8/17/93	8/17/93	250
Fond Zu/A		1634	3/10/93	10/22/93	
Non Kad Data Lab	ala Lab Analysis/Turnaround	84d	3/10/93	7/5/93	
NISIL .	rirst Sample	P0	3/10/93	3/10/93	18055
Cast	Last Sample	14	7/5/93	7/5/93	180FS+60d
Kad Data I	Kad Data Lab Analysis/Turnaround	113d	3/10/93	8/13/93	
First Sample	ample	PO	3/10/93	3/10/93	IROSS
Last Sample	ample	PO	8/13/93	8/13/93	180ES+90d
Receive Ur	Receive Unvalidated Non Rad Data	240	6/1/93	7/5/93	0000
Receiv	Receive First	PO	6/1/93	6/1/93	250FC+60d
Receive Last	re Last	PO	7/5/93	7/5/03	090
Receive Ur	Receive Unvalidated Rad Data	234	7/13/93	8/13/93	
Receive First	re First	PO	7/13/93	7/13/93	262Eq+00d
Receive Last	(e Last	PO	8/13/93	8/13/93	263
Validate No	Validate Non Rad Data	74d	6/1/93	0/13/03	
Begin		PO	6/1/93	_	765
End		PO	9/13/93		266FS+50d
Validate Rad Data	d Data	734	7/13/93	10/22/93	
Regin		PO	7/13/93	+	268
ENG		P0	10/22/93		269FS+50d
Receive Va	Receive Validated Non Rad Data	24d	8/10/93	+-	
Keceive First	0 First	PO	8/10/93	+-	271FS+50d
Receive Last	e Last	PO	9/13/93	+	272
Receive Va	Receive Validated Rad Data	23d	9/21/93	+	
Receive First	e First	PO	9/21/93	+	274FS+50d
Receive Last	e Last	PO	10/22/93	$\overline{}$	275
	20 F 000 C/ 4			-11	

٢	Task Name	Duration	Sched St	Sched Fin	Predecessors
378	Environmental Evaluation	123.5d	7/6/93	12/24/93	
379	Start	Po	2/6/93	2/6/93	340SS
-	Finish	P0	12/24/93	12/24/93	353FS+1w
<u> </u>	Evaluate Rad Data	210d	4/16/93	2/4/94	-
L	Around Ponds	111.5d	4/16/93	9/21/93	
	Slart	PO	4/16/93	4/16/93	218SS
L	Finish	8	9/21/93	9/21/93	231FS+1w
_		82d	4/30/93	8/24/93	
L	Start	В	4/30/93	4/30/93	243SS
	Finish	В	8/24/93	8/24/93	256FS+1w
L	Pond 207A	78d	7/13/93	10/29/93	
_	Start	РО	7/13/93	7/13/93	268SS
L	Finish	8	10/29/93	10/29/93	281FS+1w
	Earthen Ponds	P26	5/18/93	9/30/93	
L	Start	B	5/18/93	5/18/93	293SS
_	Finish	8	8/30/83	9/30/93	306FS+1w
L	Radiologically Controlled Area (RCA)	132d	5/13/93	11/15/93	
_	Start	PO	5/13/93	5/13/93	318SS
1	Finish	P0	11/15/93	11/15/93	331FS+1w
_	Environmental Evaluation	123.5d	8/17/93	2/4/94	Balain.
_	Slart	PO	8/17/93	8/11/93	343SS
L	Finish	P0	2/4/94	2/4/94	356FS+1w
L	Human Health Risk Assessment	768d	1/4/93	1/12/94	
	Exposure Assessment - TM4	91d	1/4/93	5/10/93	
	Prepare Tech Memo	9.8w	1/4/93	2/18/93	361
	Submit Draft Tech Memo to EG&G/DOE	8	2/19/93	2/19/93	402
	EG&G/DOE Review	100	2/19/93	3/4/93	403
	Incorporate Comments	2d	3/5/93	3/11/93	404
	Submit Revised Draft Tech Memo	8	3/11/93	3/11/93	405
	Transmittal Processing - EPA/CDH	2d	3/12/93	3/15/93	406
	EPA/CDH Review	70g	3/16/93	4/12/93	407
	Resolve Comments and Finalize TM	원	4/13/93	4/26/93	408
		8	4/26/93	4/26/93	409
	EPA/CDH Final Approval	10d	4/27/93	5/10/93	410
	Exposure Assessment Models - TM5	97e	1/29/93	6/14/93	
	Prepare Tech Memo	8w	1/29/93	3/25/93	
	Submit Draft Tech Memo to EG&G/DOE	8	3/25/93	3/25/93	413
	EG&G/DOE Review	10d	3/26/93	4/8/93	414
	Incorporate Comments	2d	4/9/93	4/15/93	415
	Submit Draft Tech Memo	po Od	4/15/93	4/15/93	416
L	Transmittal Processing - EPA/CDH	2d	4/16/93	4/19/93	417
!	EPA/CDH Review	20 <u>d</u>	4/20/93	5/17/03	418
L	Resolve Comments and Finalize Tech Memo	10d	5/18/93	5/31/93	419
	Submit Final Tech Memo	PO	5/31/93	5/31/93	420
L	EPA/CDH Final Approval	10d	6/1/93	6/14/93	421
L	Contaminants of Concern - TM6	91d	9/7/93	1/11/94	
L	Prepare Tech Memo	ew	8/1/03	10/18/93	396FS-10w

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Interporate Comments and Finalize Comments and

OU4 Phase I RFI/RI PROJECT

BRA HIIRA TM7 (Critical Path) RFT/RI Report	EE Lab Turnatound EE Data Validation	EE I field Work Lab Turnaround (RI) Data Validation (RI)	Projected IAG MS 8/372 Phase 1 RF I/RI Field Work (drilling/sampling)	Original IAG MS	
9/7/93 (CDIVE'A Final Approval) 2/8/93	7/30/93 11/3/93	(9411	1211492 [111111111111111111111111111111111111	• 5/21/93 • 10/10/93 • 3/17/94 • 8/17/94	92 Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sept Oct



X X X MAR 6 6 **EB** <u>E</u>B 6 247 Z Z 63 CDH/IFA Conditional Approval on TM No. 1 6 DEC 8 92 Draft TM No. 1 submitted to CD11/EPA > 0N NO **<** 11/16/22 6 CDIMTA letter reminding POE of need to approve Vadose Zone TM. Work Plan status remains Conditionally Approved 6 5 6 92 **OU4 TIMELINE OF EVENTS** SE SEP 92 92 Response to Comments DOE/RTO Award of Contract **ATTACHMENTE** ۷ng ۷ng 92 Revision submitted to CDIVEPA 6 Negotiations Final Work Plan were held Ę Ħ 6 6 Transmitted to (Technical Evaluation) Procurement NO 92 conditional approval of Final Work Plan 6 CDIVEPA grant Proposals Received extended the proposal due date for bidders M۸Y MAY EG&G-RPD 92 6 by I week RIT was released to the potential recommending conditional approval of Final Work Plan subcontractors EPA letter to CDH APR APR 6 6 MAR Draft Final Work Plan MAR 92 92 Revision Pages SOW submitted to procurencent to CDIMEPA submitted 2014192 11:0 Draft Final Work Plan not 1:0 *PProved by CDH/GPA 6 6 CDH Letter received ... Draft Final Work Plan approval withheld pending Resolution of Deficiencies 120001 1600721 Z Z Z 6 6 DEC Draft Final Work Plan to CDHMEPA DEC 5 11/26/91 5 Submit Revised REGULATORY PROCESS NOV NO. 5 5 PROCUREMENT comments received. Draft Work Plan posorde pou 9/30/91 CD[1/3:PA 5 6 6 SED 6 SEP 6



ATTACHMENT F - OU4 SOLAR PONDS STRATEGY FOR IAG COMPLIANCE

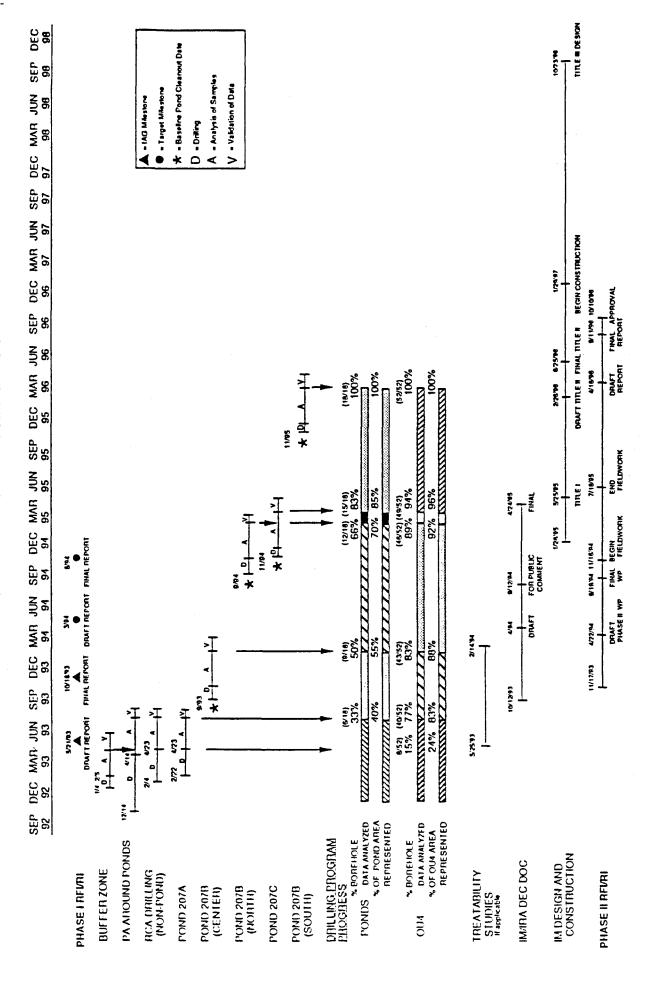
The DOE-RFO, DOE Headquarters, and EG&G consider OU4 SEP program to be of extraordinarily high priority at RFP for remedial activities. Substantial DOE and EG&G resources have been allocated to the SEP program. Due to the high priority of this project, the DOE has developed a plan to potentially recover the IAG schedule. However, it is important to understand and recognize that this approach is extremely aggressive and costly, and may not be feasible for other OUs.

The following figure represents the DOE's strategy which reflects "full-recovery" of the IAG subsequent to the OU4 Final Phase I RFI/RI Report. The DOE believes that the Interim Measure/Interim Remedial Action (IM/IRA) Decision Document, IM Design and Construction and Phase II IAG requirements can all be met with the support from EPA and CDH. The DOE and EG&G will have a contract awarded under the Master Task Subcontract (MTS) program in June 1993 which will include the following IAG requirements:

- Treatability Study (if applicable);
- IM/IRA Decision Document:
- Phase II RFI/RI Work Plans (Draft and Final);
- Phase II RFI/RI field activities; and
- Phase II RFI/RI Reports (Draft and Final).

By integrating these functions into one contract, the DOE and EG&G can save approximately 376 working days in procurement time and create a more efficient program by utilizing one team of contractors rather than multiple contractors for various requirements. The DOE believes that this approach will potentially allow compliance with the IAG. Enforcement of fines and penalties would only consume resources required for the remaining OU4 IAG activities.

OU4 - SOLAR PONDS STRATEGY FOR IAG COMPLIANCE



ATTACHMENT G - CRITICAL SCHEDULE ASSUMPTIONS

HORIZONTAL DRILLING - In the event horizontal drilling is required, the target and committment schedules will require revision. Revisions will reflect the additional time necessary to develop a related plan, to mobilize new equipment, and to perform the work.

DOCUMENTATION REVIEW - All agency review cycles, as referenced in the attached schedule, must be maintained.

LABORATORY DURATIONS - Radiological analysis are assumed to require 75 working days, as referenced in the Target schedule.

DATA VALIDATION - Data Validation is assumed to require 45 days, as referenced in the target schedule.

TECHNICAL MEMORANDA - It is assumed that only those technical memoranda currently identified in the schedule will be required.

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